

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report

City: City of Fairfax

Street: Dwight Ave. #5 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6043. The study was done in the East Bound lane on Dwight Ave. using counter #5 Red as shown on attached drawing. The counter was placed 260 Ft. from Roberts Rd. The study began on 12/02/2003 at 12:00 PM and concluded on 12/05/2003 at 09:00 AM, lasting a total of 69 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 1,512 vehicles passed through the location with a peak volume of 51 on 12/02/2003 at 05:00 PM and a minimum volume of 1 on 12/03/2003 at 04:00 AM. The AADT Count for this study was 631.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1								
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49
0	18	72	219	551	375	101	29	10

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 28 mph with 77.8 percent exceeding the posted speed of 25 mph. The HI-STAR found 11.4 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 34.34 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
1362	15	14	3	0	0	0	1

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,377 which represents 98.70 percent of the total classified vehicles. The number of Small Trucks in the study was 14 which represents 1.00 percent of the total classified vehicles. The number of Trucks/Buses in the study was 3 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1 which represents 0.10 percent of the total classified vehicles.

#### HEADWAY

During the peak time period, on 12/05/2003 at 09:00 AM the average headway between the vehicles was 11.65 seconds. The slowest traffic period was on 12/05/2003 at 11:00 AM. During this slowest period,

the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 29 and 68 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.